Case Study 4 (Singapore Airbnb)

In [1]:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sb
```

Load data from csv

```
In [2]:
```

```
sgData = pd.read_csv("listings.csv")
```

Choose Discrete and Continuous Data

In [3]:

```
sgDiscreteData=sgData[["minimum_nights", "availability_365"]]
sgContinuousData=sgData[["id", "host_id", "latitude", "longitude", "price", "number_of_r
eviews", "reviews_per_month", "calculated_host_listings_count"]]
```

Plot Discrete data histogram and pdf

In [4]:

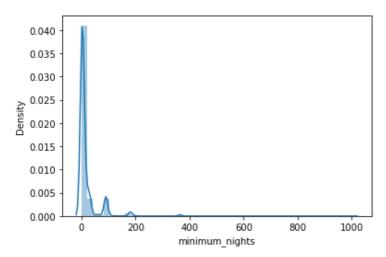
```
sb.distplot(sgDiscreteData["minimum_nights"])
```

C:\Users\micha\anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

warnings.warn(msg, FutureWarning)

Out[4]:

<AxesSubplot:xlabel='minimum_nights', ylabel='Density'>



In [5]:

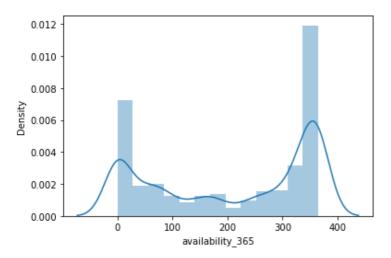
```
sb.distplot(sgDiscreteData["availability 365"])
```

C:\Users\micha\anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

```
warnings.warn(msg, FutureWarning)
```

Out[5]:

<AxesSubplot:xlabel='availability 365', ylabel='Density'>



Plot Continuous data histogram and pdf

In [6]:

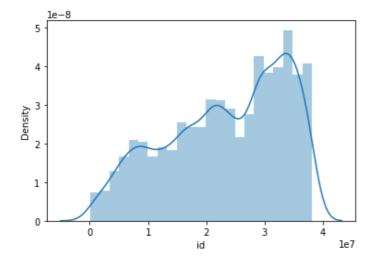
sb.distplot(sgContinuousData["id"])

C:\Users\micha\anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or histplot` (an axes-level function for histograms).

warnings.warn(msg, FutureWarning)

Out[6]:

<AxesSubplot:xlabel='id', ylabel='Density'>



In [7]:

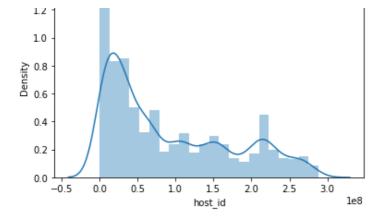
sb.distplot(sgContinuousData["host id"])

C:\Users\micha\anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or histplot` (an axes-level function for histograms).

warnings.warn(msg, FutureWarning)

Out[7]:

<AxesSubplot:xlabel='host id', ylabel='Density'>



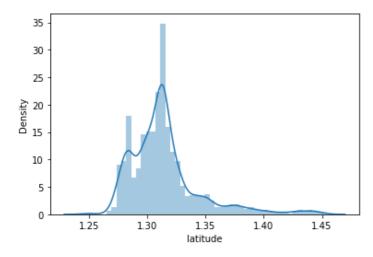
In [8]:

sb.distplot(sgContinuousData["latitude"])

C:\Users\micha\anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning:
 `distplot` is a deprecated function and will be removed in a future version. Please adapt
your code to use either `displot` (a figure-level function with similar flexibility) or `
histplot` (an axes-level function for histograms).
 warnings.warn(msg, FutureWarning)

Out[8]:

<AxesSubplot:xlabel='latitude', ylabel='Density'>



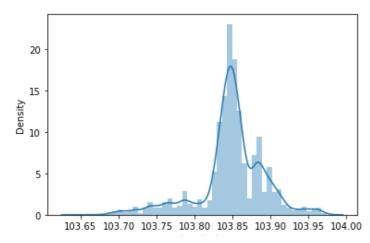
In [9]:

sb.distplot(sgContinuousData["longitude"])

C:\Users\micha\anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning:
 `distplot` is a deprecated function and will be removed in a future version. Please adapt
 your code to use either `displot` (a figure-level function with similar flexibility) or `
 histplot` (an axes-level function for histograms).
 warnings.warn(msg, FutureWarning)

Out[9]:

<AxesSubplot:xlabel='longitude', ylabel='Density'>



longitude

In [10]:

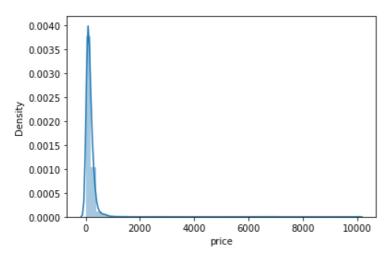
```
sb.distplot(sgContinuousData["price"])
```

C:\Users\micha\anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

warnings.warn(msg, FutureWarning)

Out[10]:

<AxesSubplot:xlabel='price', ylabel='Density'>



In [11]:

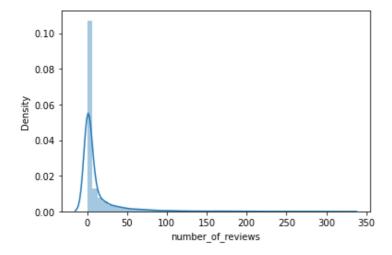
sb.distplot(sgContinuousData["number_of_reviews"])

C:\Users\micha\anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

warnings.warn(msg, FutureWarning)

Out[11]:

<AxesSubplot:xlabel='number of reviews', ylabel='Density'>



In [12]:

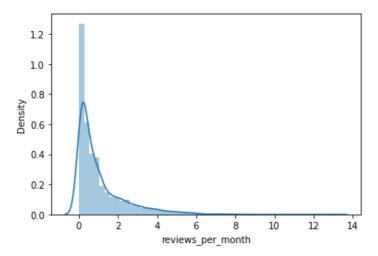
sb.distplot(sgContinuousData["reviews per month"])

C:\Users\micha\anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

warnings.warn(msg, FutureWarning)

Out[12]:

<AxesSubplot:xlabel='reviews_per_month', ylabel='Density'>



In [13]:

sb.distplot(sgContinuousData["calculated_host_listings_count"])

C:\Users\micha\anaconda3\lib\site-packages\seaborn\distributions.py:2551: FutureWarning:
 `distplot` is a deprecated function and will be removed in a future version. Please adapt
your code to use either `displot` (a figure-level function with similar flexibility) or `
histplot` (an axes-level function for histograms).
 warnings.warn(msg, FutureWarning)

Out[13]:

<AxesSubplot:xlabel='calculated_host_listings_count', ylabel='Density'>

